

METHOD FOR MANUFACTURING MOLDED CARBON FILTERS

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Abstract

A method for manufacturing molded carbon water filter blocks includes the steps of supplying carbon powder or granules, a thermoplastic polymeric binder, and an additive (in form of a redox material, anionic resin beads or powder or slowly soluble phosphate beads) through computer-controlled conveyors to individual weigh bins. Each of these materials is weighed in preestablished proportions; and when the appropriate amount of material is present in each of the weigh bins, they are emptied into a mixer. The carbon, binder and additives are thoroughly mixed and then supplied to a second weigh bin, which then is emptied into a mold. The mold is moved through a conveyor oven to cause the binder to bind the mixture of carbon, binder and additive together. After the mold is removed from the oven, it is compressed under pressure until it cools to a temperature below the melting temperature of the binder. The filter block then is removed from the mold.

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